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OPPER ALLOY FOR CONDUCTIVE SPRING

Patent Number: JP5059468
Publication date: 1993-03-09
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Requested Patent: ☐ JP5059468
Application Number: JP19910119014 19910424
Priority Number(s):
IPC Classification: C22C9/06
EC Classification:
Equivalents: JP8030235B

Abstract

PURPOSE: To obtain a copper alloy having high strength and high conductivity and excellent in stress relaxation property, thermal peeling resistance of plating, silver plating suitability, and stress corrosion cracking resistance.

CONSTITUTION: The alloy is an alloy which has a composition containing 0.5-4.0% Ni, 0.1-1.0% Si, 0.01-0.1% Mg, $\leq 0.0015\%$ S, and $\leq 0.0015\%$ O or further containing, as accessory components, 0.005-1.0% of one or ≥ 2 elements among P, B, As, Fe, Co, Cr, Al, Sn, Ti, Zr, In, and Mn and further an alloy which has a composition containing, besides the above components, 0.01-15% Zn. This alloy can be used for terminal, connector, relay, switch, etc.

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